

ILLINOIS COAL FACT SHEET

CURRENT MARKETS FOR ILLINOIS COAL

- More than 33.2 million tons of Illinois coal was mined in 2010.¹
- In 2010, the average open market sales price was \$49.46/short ton.²
- In 2010, 46.4 percent of the electricity used in Illinois and 45 percent of the electricity used in the U.S. is generated from coal.³
- More than 80 percent of Illinois coal produced was purchased by the electric utility industry in 2010. Industrial and commercial users account for the remaining percent.⁴
- More than 75 percent of Illinois coal was sold to out-of-state utilities in 2010.⁴
- The top 5 utility users of Illinois coal in 2010 were: Tennessee Valley Authority, Dayton Power & Light Company, Northern Indiana Public Service Company, Tampa Electric Company, and Springfield City Water, Light & Power Company.⁵
- Illinois utilities and industrial facilities used 4.8 million tons of Illinois coal in 2010.⁵

Source: 1 Energy Information Administration (EIA). <http://www.eia.gov/coal/annual/pdf/table1.pdf>

2 EIA, Average Sales Price: Release Date November 30, 2011. Data from Annual Coal Report. <http://www.eia.gov/coal/data.cfm>

3 EIA http://www.eia.gov/cneaf/electricity/st_profiles/illinois.html and http://www.eia.gov/energyexplained/index.cfm?page=electricity_in_the_united_states

4 EIA Annual Coal Distribution. Nov. 30, 2011. <http://www.eia.gov/coal/data.cfm>

5 EIA-923 (Schedule 2) - Monthly Utility and Non-utility Fuel Receipts and Fuel Quality Data, 2008 and Beyond. 2010 Final final data. <http://www.eia.gov/cneaf/electricity/page/eia423.html>

CLEAN-COAL TECHNOLOGIES

The Illinois Coal Research Center on the campus of Southern Illinois University Carbondale has been a center of excellence in coal, energy and environmental research for more than three decades. Current research includes studies in coal gasification, changes in chemical and mechanical coal properties with exposure to carbon dioxide (CO₂), and synergies in coal/biomass co-gasification.

- Gas Technology Institute in Des Plaines, University of Illinois Champaign, and Illinois Institute of Technology in Chicago received DCEO FY2011 grant funds for cutting edge research in membrane absorption for post-combustion CO₂ capture, reactive properties of coal/biomass mixed fuels, and identifying sources for wet FGD sorbents.
- The Illinois Clean Coal Institute is the technical arm of DCEO Coal Research and Development Program. In FY2011, \$3.6 million in funding through this grant program leveraged \$3.3 million in private funds. Projects results are published at www.ICCI.org and in scientific journals.
- The Midwest Geological Sequestration Consortium (MGSC) has begun injecting CO₂ at the Illinois Basin - Decatur Project site for the first million-metric tonne demonstration of carbon sequestration in the U.S. The CO₂ will be stored permanently in the Mt. Simon Sandstone more than a mile beneath the Illinois surface. MGSC is partnered with Illinois State Geological Survey (part of the Prairie Research Institute at the University of Illinois), the U.S. Department of Energy, Archer Daniels Midland and Schlumberger Carbon Services.
- The CO₂ storage characterization well for FutureGen 2.0 has been completed in Morgan County. The well confirms the characteristics of the Mt. Simon Sandstone formation that were also found at Decatur and Mattoon.

ILLINOIS' COMMITMENT TO THE COAL INDUSTRY

- Since its inception in 1981, the Illinois Coal Research and Development Program has granted over \$84.5 million in state, federal and private funds for basic and applied research on coal extraction, coal combustion systems, coal preparation and coal residuals management.
- The Illinois Coal Demonstration Program is helping to demonstrate and deploy clean and efficient technologies for use with Illinois coal. Illinois' commitment of over \$175.6 million towards Clean-Coal Technologies has supported 34 clean coal projects within the state.
- The Illinois Coal Competitiveness Program is helping Illinois coal producers remain competitive. More than \$181.8 million in state dollars have produced \$2.2 billion in private infrastructure investments to coal extraction, preparation and transportation facilities across the state.

ADDITIONAL COAL FACTS

- Coal was first discovered in Illinois more than 300 years ago.
- Mining began in Illinois over 200 years ago.
- Coal underlies 37,000 square miles of Illinois -- about 65 percent of the state's surface.
- Most of the coal is bituminous with high-energy values -- between 10,000 and 14,000 Btu/lb.
- Illinois' coal reserves contain more Btu's than the oil reserves of Saudi Arabia and Kuwait.
- Each day, every American uses about 20 pounds of coal in the form of inexpensive and increasingly clean, coal-based electricity.
- Recoverable coal reserves in Illinois (38 billion tons) account for almost one-eighth of the total U.S. coal reserves and one-quarter of the nation's bituminous coal reserves.
- Illinois ranked eighth among coal producing states in 2010.
- Illinois coal was mined in 14 counties in 2010.
- In 2010, 21 Illinois mines employed 3,561 miners and generated roughly 20,000 spin-off jobs.
- 25,000 acres of Illinois cropland have been surface mined and reclaimed to the original productivity.
- Nearly 15 percent of Illinois coal production was from surface mining in 2010.
- The typical Illinois coal miner earns \$76,371 per year ⁶.
- In 1981, Illinois recorded the first of numerous fatality-free years in mining history.
- Nearly 3,600 Illinois miners produced 33 million tons of coal in 2010, as much as 33,000 miners produced in 1930.

⁶ Annual Coal Mining Wages vs. All industries, 2010. http://www.nma.org/pdf/c_wages_state_industries.pdf

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